	Application No.		Applicant(s)	
Notice of Allowability	09/932,943		MINAMIHABA ET AL.	
	Examiner		Art Unit	<del></del>
	Hsien-Ming Lee		2823	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313  1. □ This communication is responsive to 7/24/03 and 7/30/03.  2. □ The allowed claim(s) is/are 18-37.  3. □ The drawings filed on 8/21/01 are accepted by the Examinated Acknowledgment is made of a claim for foreign priority under the communication is responsive to 7/24/03 and 7/30/03.  4. □ Acknowledgment is made of a claim for foreign priority under the communication is made of the priority documents have 1. □ Certified copies of the priority documents have 2. □ Certified copies of the priority documents have 3. □ Copies of the certified copies of the priority documents have 1. □ Copies of the certified copies of the priority documents have 1. □ Copies of the certified copies of the priority documents have 1. □ Copies of the certified copies of the priority documents have 1. □ Copies of the certified copies of the priority documents have 1. □ Copies of the certified copies of the priority documents have 1. □ Copies of the certified copies of the priority documents have 1. □ Copies of the certified copies of the priority documents have 1. □ Copies of the certified copies of the priority documents have 1. □ Copies of the certified copies of the priority documents have 1. □ Copies of the certified copies of the priority documents have 1. □ Copies of the certified copies of the priority documents have 1. □ Copies of the certified copies of the priority documents have 1. □ Copies of the certified copies of the priority documents have 1. □ Copies of the certified copies of the priority documents have 1. □ Copies of the certified copies of the cert	ears on the cover (OR REMAINS) C or other appropria IGHTS. This appli and MPEP 1308.  The been received in the cover in th	sheet with the co LOSED in this app te communication cation is subject to 9(a)-(d) or (f).	orrespondence addre orrespondence addre or be mailed in due or withdrawal from issue	ed course. <b>THIS</b> e at the initiative
* Certified copies not received:  5. Acknowledgment is made of a claim for domestic priority u  (a) The translation of the foreign language provisional a  6. Acknowledgment is made of a claim for domestic priority u  Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of  7. A SUBSTITUTE OATH OR DECLARATION must be subn INFORMAL PATENT APPLICATION (PTO-152) which gives reas	application has been nder 35 U.S.C. §§  f this communication this application.	in received. 120 and/or 121. In to file a reply co ITHIS THREE-MON INCOME	omplying with the requ NTH PERIOD IS NOT	EXTENDABLE.
<ul> <li>8. CORRECTED DRAWINGS must be submitted. <ul> <li>(a) including changes required by the Notice of Draftsper</li> <li>1) hereto or 2) to Paper No.</li> <li>(b) including changes required by the proposed drawing</li> <li>(c) including changes required by the attached Examiner</li> </ul> </li> <li>Identifying indicia such as the application number (see 37 CFR 1 each sheet.</li> <li>9. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT FOR TEXT</li> </ul>	correction filed 's Amendment / C.  84(c)) should be west	ing Review(PTO, which has be omment or in the Continuous of the drawing the MATERIAL not the continuous of the drawing of the material of the continuous of the drawing of the continuous	-948) attached een approved by the E Office action of Paper ags in the front (not the	No back) of
Attachment(s)  1 Notice of References Cited (PTO-892)  3 Notice of Draftperson's Patent Drawing Review (PTO-948)  5 Information Disclosure Statements (PTO-1449), Paper No  7 Examiner's Comment Regarding Requirement for Deposit of Biological Material	4□ 6□ 8⊠	] Interview Summa ] Examiner's Ame	al Patent Application (I ary (PTO-413), Paper ndment/Comment ement of Reasons for A	No

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## **DETAILED ACTION**

## Remarks

- 1. Applicants' cancellation to claims 1-17 is acknowledged.
- 2. Claims 18-37 are pending in the application.
- 3. The Final rejection is withdrawn in response to applicants' amendment after Final filed 7/24/03 and supplemental amendment after Final filed 7/30/03.

## Allowable Subject Matter

- 4. Claims 18-37 are allowed.
- 5. The following is an examiner's statement of reasons for allowance:

The closest prior art or record, Wojtczak et al. to US 6,409,781 teach a method of manufacturing a semiconductor device, as set forth in Final rejection.

In contrast, Wojtczak et al. neither teach nor suggest teach subjecting said conductive material film to a chemical mechanical polishing (CMP) using a slurry comprising first colloidal silica particles whose primary particles have a diameter ranging from 5 to 20 nm and second colloidal silica particles whose primary particles have a diameter ranging from 20 nm to 50nm, wherein the weight ratio of the first colloidal silica particles is in the range of 0.6 to 0.9 based on a total weight of said first and second colloidal silica particles; that the slurry includes third particles formed of a material different from those of the first and second colloidal silica particles, to remove said conductive material film; and that the slurry contains a surfactant, which is dodecyl benzene sulfonate.

Thus, the instant invention is deemed to be directed to a nonobvious improvement over the prior art. The improvement comprises first, second and third particles with different particle

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size and materials and using dodecyl benzene sulfonate as a surfactant in the polishing slurry so

as to optimize and to precisely control polishing.

6. Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Any inquiry concerning this communication or earlier communications from the 7.

examiner should be directed to Hsien-Ming Lee whose telephone number is 703-305-7341. The

examiner can normally be reached on M-F (9:00  $\sim$  5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Olik Chaudhuri can be reached on 703-306-2794. The fax phone number for the

organization where this application or proceeding is assigned is (703) 308-7722.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703-308-0956.

Hsien-Ming Lee

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Sep. 8, 2003

W. DAVID COLEMAN PRIMARY EXAMINER